

DATA SHEET

OPERATOR: General Crude Oil Co. ADDRESS: 1890 Colo. State Bank Bldg.
1600 Broadway
Denver, Colorado

WELL NAME: Federal-Lone Tree #1

LOCATION: 3300 FWL, 652 FNL COUNTY: Converse STATE: Wyoming

WELL CLASSIFICATION: Wildcat

ELEVATION: GL 5664.2 KB 5680.0

DATE SPUDED: 1:00 A.M., 6/22/75 DATE DRILLING CEASED: 7/22/75

CONTRACTOR: Westburne Drilling Co.
Tool Pusher: Ken Bailer Drillers: Reed Boyles
Camron Gentry
Tom Tillman

EQUIPMENT:

Drawworks: National Ideal Type 55 Drawworks Power: 3-CAT-D353 Diesels
#1 Pump: National D-700 14"x6" #1 Pump Power: Compounded
#2 Pump: National D-700 14"x6" #2 Pump Power: Compounded
Derrick: Lee C. Moore
Drill Pipe: 4-1/2" E/6" Tool Joint
Drill Collars: 7-7" and 14-6-1/4"

CASING: 9-5/8" to 1108'
5-1/2" to 10,072

GEOLOGIST: A. R. Renfro SUPERVISION:
Casper, Wyoming From: 1110 To: 9910

ENGINEER: J. H. van Ierland
Calgary, Alberta, Canada

DRILLING FLUID:

Type: Chem. and Gel
Company: Wilson Mud Co.
Engineer: Jim Tomlin

OPEN HOLE TESTS:

Type: Lynes Company: Lynes United Engineer: Bob Criswell

CORES:

Type: Full Hole Company: Hiller Co. Engineer: Ron Lain

GAS DETECTION:

Type: Continuous hot wire and chromatograph
Company: Bayles Lab. Engineer: Ray Sullivan
Unit on at 1110 , off at 10,164

CHEMICAL & GEOLOGICAL LABORATORIES

P. O. Box 2794
Casper, Wyoming

CORE ANALYSIS REPORT

Company	General Crude Company	Date	July 9, 1975	Lab. No.	16769
Well No.	Fed. Lone Tree No. 1	Location	NW NE 17-35N-67W		
Field	Wildcat	Formation	2nd Frontier		
County	Converse	Depths			
State	Wyoming	Drilling Fluid			

C—Crack
F—Fracture
H—Horizontal
O—Open

LEGEND
NF—No Fracture
IS—Insufficient Sample

S—Slight
St—Stain
V—Vertical
Vu—Vugs

SAMPLE NO.	LEGEND	DEPTH, FEET	EFFECTIVE POROSITY PERCENT	PERMEABILITY MILLIDARCIES		SATURATIONS		
				HORIZONTAL	VERTICAL	% PORE SPACE RESIDUAL OIL	% PORE SPACE TOTAL WATER	
Core Number 1, 9762-9822, Recovered 60 feet.								
9762-81, Shale - No Analysis								
1	VF	9781-82	2.7	0.05		Trace	95.4	
2	VF	9782-83	3.3	0.03		Trace	67.1	
3	VF	9783-84	3.7	0.08		0	96.2	
4	VF	9784-85	3.9	0.04		Trace	98.5	
5	VF	9785-86	8.5	0.75		5.7	54.8	
6	NF	9786-87	6.6	0.15		11.1	77.2	
7	NF	9787-88	7.1	0.20		10.3	71.7	
8	NF	9788-89	7.4	0.12		9.9	63.3	
9	NF	9789-90	8.2	0.27		8.9	50.9	
10	NF	9790-91	8.1	0.36		9.1	52.2	
11	NF	9791-92	6.8	0.14		3.6	82.1	
12	NF	9792-93	6.4	0.12		Trace	83.8	
13	NF	9793-94	7.8	0.14		6.3	54.1	
14	NF	9794-95	7.5	0.13		6.5	74.2	
15	NF	9795-96	7.2	0.15		6.7	73.6	
16	VF	9796-97	8.0	0.07		6.1	69.8	
17	NF	9797-98	6.4	0.06		7.7	87.0	
18	VF	9798-99	7.3	0.08		6.7	76.0	
19	VF	9799-9800	7.1	0.08		6.9	72.3	
20	VF	9800-01	8.0	0.13		6.1	77.7	
21	VF	9801-02	8.8	0.15		5.6	60.7	
22	VF	9802-03	8.0	0.07		6.1	63.9	
23	VF	9803-04	6.2	0.07		7.9	82.8	
24	VF	9804-05	8.2	0.10		3.0	79.1	
25	VF	9805-06	10.0	0.03		2.4	64.4	
26	VF	9806-07	8.1	0.09		3.0	74.3	
27	VF	9807-08	10.7	0.08		Trace	68.4	
28	VF	9808-09	9.6	0.06		Trace	73.9	
29	VF	9809-10	8.3	0.09		Trace	88.8	
30	VF	9810-11	9.8	0.06		Trace	72.6	
31	VF	9811-12	10.8	0.07		Trace	68.2	
32	VF	9812-13	9.1	0.04		Trace	51.1	
33	VF	9813-14	10.9	0.08		Trace	67.3	
34	VF	9814-15	6.5	0.02		Trace	88.7	
35	VF	9815-16	9.5	0.09		Trace	65.8	

C—Crack
 F—Fracture
 H—Horizontal
 O—Open

LEGEND
 NF—No Fracture
 IS—Insufficient Sample

S—Slight
 St—Stain
 V—Vertical
 Vo—Vugs

SAMPLE NO.	LEGEND	DEPTH, FEET	EFFECTIVE POROSITY PERCENT	PERMEABILITY MILLIDARCIES		SATURATIONS		
				HORIZONTAL	VERTICAL	% PORE SPACE RESIDUAL OIL	% PORE SPACE TOTAL WATER	
		Core Number 1, continued.						
36	VF	9816-17	10.7	0.08		Trace	57.9	
37	VF	9817-18	10.4	0.11		Trace	66.4	
38	VF	9818-19	11.7	0.15		Trace	54.9	
39	VF	9819-20	7.8	0.05		Trace	82.1	
40	VF	9820-21	11.3	0.20		Trace	66.9	
41	VF	9821-22	12.1	0.46		Trace	56.9	

Date	Remarks	Lone Tree
JUNE 22, 1975	SPUDDED 1:00 AM JUNE 22, 1975	
6/22/75	PTD 413' Drilling. Dev: ¼ @ 140'; ½ @ 413'.	
6/23/75	PTD 1,110' (made 876') NU. Ran 28 ints. 9 5/8" csg.; 36# & 32# H-40, Rge. 3 ST&C new csg. w/shoe, float collar, 3 centralizers, landed csg. at 1108.14' KB. Cemented by Howco w/1050 cu. ft. oilwell cement + 2% CaCl ₂ + ½% Flo-seal (100% excess). Displacing press. 700 psi. Bumped plug w/1000 psi @ 10:15 pm June 22. Had 20 bbls returns. Surveys: ½ deg. @ 413'; ¾ deg. @ 619'; ¾ deg. @ 806'; ¾ deg. @ 900'; 1 deg. @ 1,000'; 1 deg. @ 1,100'. TCC: \$12,340.	
6/24	PTD 2,439' (made 1,329' in 24 hrs) Drlg thru interbedded lt-dk olive grey sh & v. fine-fine sand. Drlg. rate 1-5 mins/5'. Press. tstg Hydrill, pipe rams & blind rams to 1500 psi for 15 mins. Dev: 1 deg @ 1650'; 1½ deg @ 2150'. 2 unts BGG.	
6/25	PTD 3,840' (made 1,525' in 16½ hrs) Drlg shale: dk olive grey sltly silty - sltly calc. MW 8.3#; visc 28; pH 10. Mud & chems CaCl ₂ , 4 sx Separan 30, 3 sx lime. Surveys: 2¼ deg @ 2439'; 2 deg @ 2700'; 2½ deg @ 3192'; 2½ deg @ 3813'. 2 unts BGG. TCC: \$67,892.	
6/26	PTD 4,772' (made 932') Drlg. shale: med-lt grey calc. Smpl condit. poor. Sand Zone 4313-38' greyish-wht, v. fine-grained, friable, clay-filled. EST. TEAPOT @ 5,028'. Drlg. rate 1½ mins/ft. Circ. sump for clear wtr drlg. Losing wtr from sump. MW 8.3#; visc. 29, pH 10. Dev; 2 deg @ 4461'. 2 unts BGG, 5 unts Trp gas @ 4467'. TCC: \$76,267.	
6/27	PTD 5,480' (made 708' in 17 hrs) Drlg in PARKMAN SS: med-v lt. grey, v. fine-grained, calc. cement, slightly friable. Est. porosity 10-15%. thin interbeds of coal. NO SHOW Smpl condit. fair. Drlg rate 1-1½ mins/ft. 2 unts BGG 5 unts Trp gas @ 5089'. 15 unts dry gas at 5552' definitely from coal zone. Sample tops: TEAPOT at 5,065' (+615'); PARKMAN at 5,462' (+218'). MW 8.3#; visc 28; pH 10. Dev: 1½ deg @ 4899'; 1 ¾ deg. 5460' (Strapped out @ 5,089' - had 33' depth corr.) Est. hit Shannon late Sun.	
6/28	PTD 6,254' (made 774' in 17 ¾ hrs) Drlg. MW 8.3#; visc. 29; pH 10; 1500 PP; 54 spm.	
6/29	PTD 6,854' (made 600' in 14½ hrs) Drlg. MW 8.3#; visc 29; pH 10; 1450 PP; 54 spm. Devs: 1 ¾ deg @ 6316; 2 deg @ 6599.	
6/30	PTD 7,560' (made 706 in 18 ¾ hrs) Drlg. MW 8.3#; visc. 29; pH 10; 1450 PP; 54 spm. Devs: 2 deg @ 7386'. Drlg. shale: lt olive grey, silty, platy. Smpls 30% bentonite lt olive grey-yellowish white. Smpl condit. fair. Drlg rate 1-1½ mins/ft. 10 unts BGG. Revised top: PARKMAN @ 5439' (+241'). New tops: STEELE @ 5910' (-230'); SHANNON @ 7312' (-1632'). Drlg break 7312-18' ½ min/ft in Shannon sand: med-v. lt grey, v. fine-fine grained, poorly sorted, sub-angular, mod. glau. & mod. calc. Est. porosity 20-25%. NO SAMPLE SHOWS. 23 unts BGG @ 7265-7312'. Went to 200 unts gas @ 7312-18', all C ₁ , dropped to 20 unts immediately.	

7/1	PTD 8,209' (made 594' in 24 hrs) MW 8.3#, visc. 29; pH 10. Drlg Shale 80%: med olive grey, silty, soft; 20% bentonite. Smpl condit. fair. Drlg rate: 1½ mins/ft. No drlg breaks. Dev: 1½ deg @ 7677'. 20 unts BGG, 50 unts Trp gas @ 7677'.
7/2	PTD 8,500' (made 291') Drlg shale: med olive grey, soft, weakly calc, 20-30% bentonite. Smpl condit poor-fair. Drlg rate: 1-1½ mins/ft. Dev: 1½ deg @ 8435'. 20 unts BGG, 60 unts Trp gas @ 8435'. Core Barrel on location: 60'; OD 8 15/16"; ID 4¼", diamond. Cleaned 160' to BOH on trp. MW 8.3#; visc 29, pH 10; WOB 30-40000; 72 rpm; 1400 PP; 54 spm. TCC \$117,961
7/3	PTD 8,984' (made 484') Drlg shale: dk olive grey, v. calc. Smpl condit. poor-fair. Drlg rate: 2 mins/ft w/range from 1-4 mins/ft. Dev: 1 3/4 deg @ 8984'. WOB 45,000; 72 rpm; 1400 PP; 54 spm; pH 9.5; 8.3# MW; visc 29. 160-200 unts BGG. TENTATIVE SAMPLE TOP FOR NIOBRARA 8742' (-3062'). Will condition & mud up tonight. TCC: \$156,658
7/4	PTD 9,320' (made 336') Drlg. Cleaned 300' to btm on trip, some tight connections. On bit #9, had washout in DP, lost pmp press, bit locked up. Trpd out & found hole in DP. 8.7# MW; visc 33; wtr loss 18%; pH 9.5. TCC: \$174,021.
7/5	PTD 9,440' (made 120') Circ. smpls. Lost partial circ (40 bbls) at 9430'. Mixed 35 bbls pill & regained. Tentative FIRST FRONTIER 9420' (-3740'). Cleaned 125' to btm on trp. Dev: 1 3/4 deg @ 9348'.
7/6	PTD 9,567' (made 127') Drlg thru fractured fma @ 80% returns. Total mud loss 650 bbls. TCC: \$175,974.
7/7	PTD 9,650' (made 83') Drlg shale: v dk olive grey, silty. Smpl condit poor. Drlg rate 11 mins/ft. 10 unts BGG, 30 unts Trp gas @ 9599'. Top CARLILE @ 9160' (-3480) No shows 1st Frontier. Estimate 2nd FRONTIER @ 9777'. Tentative coring pt 9772' late pm. 8.9# MW; visc. 38; wtr loss 7.6%; WOB 38,000; 44 rpm; 54 spm; 1400# PP. Drlg w/full returns. Cleaned to botm 60' on trp.
7/8	PTD 9,758' (made 108' in 24 hrs) Drld dk olive grey shale w/ v. thin ss stringers, lt grey v fine-fine grained, tite, NO SHOWS. Smpl condit. fair. Drlg rate 15 mins/ft. 35 unts BGG. 8.9# MW; visc 44; wtr loss 7.7%; pH 9. PREPARING TO CORE. Core point at 9762', will prob. cut 8-13' shale above 2nd Frontier.
7/9	PTD 9,771' (made 13') Coring. Core point 9762' - cut 9' in 3½ hrs. MW 9#; visc 38; wtr loss 8%; pH 9.5. Dev: 3/4 deg @ 9762'.
7/10	9,822' (made 51') Trpg. Attmpted DST #1 9783'-9822', could not get to bottom, bridge @ 9524'. Ttl CC: \$197,674. TOP SECOND FRONTIER: 9781'. Cored 9762'-9822', cut & rec. 60'. Av por: 7%; av perm: .1 md; av oil sat: 6%; av wtr sat: 70%.

7/11	PTD 9,822'	(made 0' progress) Encountered bridge, will re-attempt DST #1. Trpg out tstg tools. Cleaned 370' to bottom on trip. MW 9#; visc 44; wtr loss 8%; pH 10. TCC: \$204,415
7/12	PTD 9,822'	WO tstr. Cleaned 370' soft fill to btm. Appears to be mud calc. MW 8.8; vis 50; wl 8; pH 10.
7/13	9,837'	Drlg. DST #3 9781-9822 Misrun, pkr failed. IH 4616 FH 4566; PF 4167. 60' fill on trp. 8.8# MW; vis 55; w. 8.
7/14	9,910'	(made 73' in 14½ hrs) Logging. Logger depth 9902'. Dev: 9910' 3/4 deg. 9# MW; visc 48, wl 6.5; pH 9.5/ TCC: \$222,730
7/15	9,910	Circ & cond. hole. Ran DILL 9902-1108' & BHC Sonic 9903-1108'. Attmpd to run Formation Density Log but caliper tool broke down. POOH for repairs. Ran in w/same tool to btm. Attmpd to log hole @ 1800 ft/hr, got stuck @ 9658'. Worked logging tool for 3 hrs, came free. Attmpd to log rest of hole, tools broke down. POOH w/tool, ran in w/DP & DB to cond hole. Will attmp log this pm. 9# MW; visc 55; wl 6.5; pH 9.5
7/16	9,910'	Prep for logging. Hole open 6 hrs. WO Schlumbgr repairs Ran in w/logging tools, hit bridge @ 8970'. Schlumb could not get to btm. POOH. Ran in w/DB to condit. hole. Will attempt log this am/pm. 9.1# MW; visc 58; wl 6.5; pH 9.5/
7/17	9,910	Circ & cond hole for DST. Ran Comp. Neutron Formation Density log from 9900-1108' KB. MW 9#; visc 51; wtr loss 7.2; pH 9.
7/18	9,942'	Did not run DST. Will drill 200' deeper. Trpg. 9# MW; visc 55; wtr loss 8; pH 9. TCC: \$252,147.
7/19	10,000'	Drlg. MW 9#; visc 56; wtr loss 6.8; pH 9.5
7/20	10,022'	(made 22' in 11½ hrs) Drlg. MW 9#; visc 57; wtr loss 6.8%; pH 9.5/
7/21	10,123'	(made 101 in 23½ hrs) Drlg. MW 9#; visc 53; wtr loss 6.2; pH 9.5/ TCC: \$263,736. Proposed to TD @ 10,150', base of 3rd Frontier zone.
7/22	TD 10,164'	Logging. Ran DILL 9700-10,164' & CFDC-N 9600-10,164'. Will run DST #4 10,100-TD. Dev: 3/4 deg @ 10,160'. MW 9.1#; visc 71; wtr loss 6.4; pH 9.5/
7/23	10,164'	Trpg in to cond. hole. DST#4: 10,100-10,164'. Dual conventional btm hole test w/7" packers. PF 15 mins, ISI 60 mins; Open 90 mins; FSI 120 mins. IHP 4849; FHP 4793, IFP 127-147, FFP 151-184, ISIP 450, FSIP 224. BHT 178; weak air blow (1" wtr) incr to 3" blow at end of 15 min PF. Weak air blow on valve open incr to strong blow off btm of bucket in 5 mins. Steady

8/5	TD 10,164'	7:00 am	Start rig & RU Howco to acidize.
	PB 10,072'	8:00	Fill annulus & pmp 6 bbls 5% HCl, 12 bbls 10% HF, & 6 bbls 5% HCl into tbq & displace to btm w/32 bbls 2% KCl Water.
		8:40	Start washing perms w/1 bbl acid away @ 0 psi.
		8:45	Wash 1 bbl at 0 psi
		8:55	Pressure up to 1000 psi w/1 bbl. 1/2 pressure up to 1600 psi w/1 bbl broke down at 8:56 to 750 psi. Squeezed acid away at 2.5 bpm & 750 psi.
		9:06	Acid away. Did not over displace. Instantaneous SIP 500 psi.
		9:10	TP 300 psi
		9:25	TP 250 psi
		9:45	TP 100 psi
		10:00	TP 50 psi.
			Set pkr & released Howco. RU to swab. Pulled 9 swabs, rec. 65 bbls KCl water & acid. Swabbed from pkr. Little fluid entry, no gas.
8/6	TD 10,164'		
	PB 10,072'		Pulling dry swabs since 8 am at 1/hour. Total load water recovered is 65 bbls, still have 15 bbls yet to recover. Waiting on Orders.
8/7			Shut down. WOO.
8/8			Will run 3-day DST as follows: 3-hr IFP; SIS until Sat am; 7-hr FFP; FSI Mon am.
8/11	TD 10,164'		POOH w/DST tool. Shld have results this pm.
	PB 10,072'		
8/12			DST #5: 2nd Frontier (perms 9788-9796)
			Set packer @ 9732', gauge @ 9717'.
			IF: 3 hrs. Strong blow in 1 min, decr to weak blow after 60 mins & remained same thruout IF period. No GTS.
			ISI: 12 hrs. Blow died in 10 mins.
			FF: 12 hrs. No blow. Bubbles to surf after 10 mins incr after 30 mins. GTS in 165 mins @ 10 cf for 30 min gauge period. Remained steady to end of flow.
			FSI: 36 hrs. Blow died in 28 mins.
			IFP 53-419; ISIP 419-3870; FFP 711-1409; FSIP 1409-3788; IHP 4390; FHP 4019; BHT 158°F. Rec 120' free oil 37.7° API gravity, 600' SliWCO; 4017' fresh wtr.
			Chart shape indicates some depletion, no damage, no fracture permeability. WO final decision.
8/13	TD 10,164'		
	PB 10,072'		WOO. Rig on standby.
8/14			Plugging back. Will perf Shannon this pm.

8/15	TD 10,164' PB 7,500'	Ran BP & set @ 7500'. Dmpd 1 sx cmt on plug w/dmp bailer. Perfed Shannon 7319-7324'. w 4" csg gun @ 1 shot/ft. LD 39 stnds tbg & ran in w/Howco RTTS tool & set @ 7302'. Swabbed to 7296' KB, no fluid entry. Acidized w/1000 gals 15% MCA - ttl load 80 bbls. Started to wash perfs w/acid & load disappeared. Tbg press on vacuum. Swabbed 56 bbls KCl out of tbg & 13 bbls acid wtr. Made 100 ' of fluid in 1 hr, no fluid 2nd hr. Shut well in -- fluid level @ packer.
8/16	TD 10,164' PB 7500'	Fluid level @ 5000' from surf. Trace oil on 1st & 2nd run, no oil rest of day. Pulled 1 swab/hr. Pulled 13½ bbls some acid wtr.
8/17		Shut down for Sunday
8/18	TD 10,164 PB 7500	Fluid level @ 2900' from surf. (Fillup of 25.8 bbls this am). Pulled 2 swabs: 1st swab rec wtr & tr/oil; 2nd swab rec wtr. Wtr is annulus wtr (took 18.7 bbls to fill annulus). Probably small tubing or packer leak.
8/19	TD 10,164' PB 7500'	Fluid level 5700' @ 6 am. Swabbed 6 am to 5 pm rec 15½ B. fma wtr w/trace oil. R _w water 0.28 @ 74°.
8/20	TD 10,164' PB 7,500'	Plugging back to perf & test L. Parkman, perfs will be 5850'-5860'.
8/21	TD 10,164' PB 7,240'	Cmt squeezed w/HOWCO using 100 sxs cmt (20½ bbls cmt slurry) + 10% salt. 12:24pm 300# tbh press & 500# csg press, pmpd 30 bbls. 12:31 vol 41 bbls, 500# tbg press, stopped pmp, bled down 300#. 12:33 Pressured up to 500#. 12:39 Vol 43½ bbls, stopped pmp, bled down from 800-500#. 12:47 Pmpd ½ bbl, press up to 750#. 12:48 stopped pmp, bled down from 750-450#. 1:12 ½ bbl vol, pmpd 450-1750#. 1:13 Stopped pmp, press increased 1750-7500#. 1:23 Started pmp at 700#, & pressured to 3,000#. 1:26 3,000# on tbg. 1:35 2750# on tbg, released press, bled back into HOWCO tanks 1:39 Repressured to 3,000#. 1:58 Press stayed, squeeze held, released HOWCO. PU tbg to 5900'. Rolled to hole w/2% KCl water, took 124 bbls. PO tbg, LD RTTS tool, prep to perf. Perfed Lower Parkman @ 5851-5861'. Used 4" csg gun w 1/shot/ft for 10 shots. Top cement @ 7240'. RI w/pkr & tbg & proceeding to swab.
8/22	TD 10,164' PB 7,240'	By 12 noon had swbd 34 b. KCl wtr & 5 b. fma wtr out of tbg for ttl of 39 b. 12 noon to 5 pm pull 1 swb/hr recovering 3+ b. for ea. swab for ttl of 15.96 b fma wtr. Ttl fma wtr rec. 21 b. No shows. Sqzq off perfs in L. Pkman. Will perf Teckla 4320-4330.

Lone Tree

8/22 con't.	PB 7,240'	Squeezing perfs 5851-5861'). HOWCO on locatn 7 am. 10 am mixed 100 sxs cmt + 10% salt. 10:10 Pmpd 34.5 bbls tbg press 400# displaced cmt. 10:20 Staging tool closed tbg press nil 10:35 Pmpd 0.5 bbls tbg press nil displaced cmt. 10:55 " " " " " " " " " 11:30 " " " " " " 200# " " 12:00 " " " " " " 300# " " 12:30 " " " " " " 3000# Released csg press. Flowed back 1½ bbls, lost all cmt, squeeze job no good.
8/23	PB 7,240'	Prep to squeeze perfs 5851-61'. HOWCO on loctn 7:30 am. 7:55 am mixed 100 sxs cmt + 10% salt. Csg press 800#. 8:05 Displaced cmt. 8:15 Pmpd ½ bbl Tbg press 2300# Staging cmt squeeze 8:30 " " " " " 1500# " " " 8:45 " " " " " 2150# " " " 9:15 " 1/8 bbl " " 2000# " " " 9:35 " " " " " 2500# Released csg press. Held fine, good squeeze. 9:50 Pulled RTTS tool & tbg.
8/24		SHUT DOWN FOR SUNDAY
8/25	PB 5,752'	Plugged back. Perfd Teckla 4322-32 using 4" csg gun w 1 shot/ft. " RI & prep to swab.
8/26	TD 10,164' PB 5,752'	Mud column came in. Pmpd 130 bbls wtr, no rtns. Tried pmpg down sfc pipe & dwn tbq. No circ in either case. WOO.
8/27	TD 10,164' PB 5,752'	GCO as Operator wanted to P&A well. Clinton Oil Co. took over operations to attempt to complete in 2nd Frontier FINAL REPORT